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› Runleader HM058A-RD Hour Meter Tachometer User Manual

Runleader HM058A

Runleader HM058A-RD Hour Meter Tachometer User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Runleader HM058A-RD Hour Meter Tachometer. This device is designed to monitor engine hours, real-time RPM, and provide maintenance reminders for various gasoline-powered equipment, including lawn mowers, generators, marine engines, and ATVs.

Please read this manual thoroughly before using the product to ensure correct operation and to maximize its lifespan.

2. PRODUCT FEATURES

- **Multi-Function Display:** Integrates tachometer, hour meter, service timers, and job timer.
- **Hour Meter (TOT):** Tracks total engine run time, non-resettable, with settable initial hours.
- **Maintenance Reminder (SVC):** Programmable service interval countdown.
- **Job Timer (JOB):** Measures duration of specific work tasks.
- **Tachometer:** Displays real-time RPM, records maximum RPM, and features a programmable RPM alert.
- **Programmable Firing Patterns:** Adaptable for various engine types.
- **Multi-Color Backlit Display:** Enhances visibility in different lighting conditions.
- **Battery:** Replaceable internal battery (CR2045).
- **Durability:** IP67 waterproof rating.
- **User Shutdown:** Allows manual power off to conserve battery.
- **Data Retention:** All data is retained after shutdown.
- **Two Working Systems:** Offers different display modes (DSP-1 and DSP-2).



Image 2.1: The Runleader HM058A-RD Hour Meter Tachometer, displaying its multi-function screen and wired connection.

3. SETUP AND INSTALLATION

3.1 Engine Signal Connection

The tachometer receives RPM signals by wrapping its signal wire around the spark plug wire of the engine. For optimal signal reception, wrap the signal wire around the spark plug wire at least 5 times.



Hour Meter | Battery Indicator | Multi-function meter | Controller | ...



R&D Innovation



Manufacturing Capacity



Quality Control



AFTER-SALES SERVICE
24-hour customer service
Technical Support

Warehouse Management

Image 3.1: Illustration of connecting the tachometer's signal wire by wrapping it around an engine's spark plug wire.

3.2 Product Installation

The HM058A-RD offers two primary mounting options:

- **Stick-on Mounting:** Use the provided adhesive pad to secure the meter to a clean, flat surface.
- **Screw-on Mounting:** Utilize screws to permanently attach the meter to a surface through designated mounting holes.

1.Engine signal connection



2.Product Installation

■ Stick-on mounting



■ Screw-on mounting



Image 3.2: Visual representation of both stick-on and screw-on mounting methods for the device.

4. OPERATING INSTRUCTIONS

4.1 General Operation

The device features two primary buttons: **MENU** and **SET**. These buttons are used to navigate through functions and adjust settings.

4.2 Hour Meter (TOT)

The Hour Meter displays the total accumulated operating hours of the engine. This value is non-resettable to ensure accurate lifetime tracking. When the engine is off, the display shows the total run time.

- **Initial Hour Setting:** You can set an initial hour reading when replacing an old meter. Refer to the detailed instructions for setting this value.

TOT

Display TOT (total hours) when the engine is off.



RPM

Display real-time RPM when the engine is on.



Image 4.1: The display showing 'TOT' for total hours, indicating 0:28 hours of operation.

4.3 Tachometer (RPM)

The tachometer function accurately records and displays the engine's real-time Revolutions Per Minute (RPM) when the engine is running. This helps in adjusting engine idle and monitoring performance.

- **Programmable Firing Patterns:** The device can be configured for different engine firing patterns to ensure accurate RPM readings.

- **MAX RPM:** The meter records and allows recall of the maximum RPM achieved during operation.
- **RPM Alert:** A programmable RPM alert can be set. When the engine RPM exceeds this value, the display backlight will turn red, and a warning icon will flash.

SVC

Countdown tracking time, Reminding maintenance.
(e.g. Air filter replacement)



JOB

Used to measure the time of a particular work job.
(e.g. Oil filter change)



Image 4.2: The display showing 'RPM' and a reading of 3000 RPM.

INITIAL TIME SETTING

The initial time can be set to replace an hour meter.



Image 4.3: The display showing 'MAX RPM' and a recorded maximum of 18000 RPM.

BACKLIGHT MODES

3 MODES :
Automatical / Always on / Off

(L-Off)



Turn off the backlight display.

(L-Auto)



The backlight will be automatically turned off.

(L-On)



The backlights always on.

LCD display can be shut down--Press the MENU button and SET button at the same time.



Image 4.4: The display showing 'RPM' with a red backlight and warning icon, indicating an RPM alert at 20000 RPM.

4.4 Service Timer (SVC)

The Service Timer (SVC) is a programmable countdown timer used to remind you of scheduled maintenance intervals. Once set, it counts down the remaining time until the next service is due.

- **Setting SVC:** Use the MENU and SET buttons to program the desired service interval (e.g., for air filter replacement).

MAX RPM

Display the maximum RPM recorded.



ALERT RPM

Programmable alert RPM
To set the value of warning reminder.



Image 4.5: The display showing 'SVC' and a countdown of 1000:00 hours for maintenance.

4.5 Job Timer (JOB)

The Job Timer (JOB) allows you to measure the duration of specific tasks, such as an oil change or a particular work session. This timer can be reset independently.

- **Using JOB:** Activate and reset the job timer through the menu interface to track individual work periods.

PROGRAMMABLE FIRING PATTERNS

Applied to all types of gasoline engines.



4 RPM Measurement Ranges can be set.

Image 4.6: The display showing 'JOB' and a recorded time of 0:18 hours for a specific task.

4.6 Backlight Modes

The HM058A-RD offers three backlight modes for visibility:

- **L-Off:** Backlight is turned off.
- **L-Auto:** Backlight automatically turns off after a period of inactivity.
- **L-On:** Backlight remains continuously on.

To shut down the LCD display, press the MENU button and SET button simultaneously.

1.Engine signal connection



2.Product Installation

■ Stick-on mounting



■ Screw-on mounting

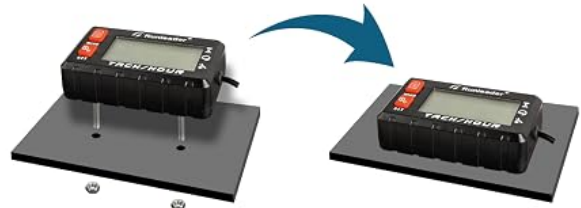


Image 4.7: Displays of 'L-Off', 'L-Auto', 'L-On' backlight modes and the process for user shutdown.

4.7 Two Working Systems (DSP-1, DSP-2)

The device features two distinct operating systems:

- **DSP-1:** Hours and RPMs related functions are directly displayed and can be viewed continuously.
- **DSP-2:** Hours related functions and RPMs related functions can be locked, and only the function data under the module can be displayed and viewed. This system may also feature different backlight colors for hour and RPM modules.

1.Engine signal connection



2.Product Installation

■ Stick-on mounting



■ Screw-on mounting



5. MAINTENANCE

5.1 Battery Replacement

The HM058A-RD is powered by a replaceable CR2045 Lithium Metal battery. The device will indicate 'BAL-Lo' when the battery level is low, prompting replacement.

- To replace the battery, carefully open the battery compartment, remove the old CR2045 battery, and insert a new one, ensuring correct polarity.

1.Engine signal connection



2.Product Installation

- Stick-on mounting



- Screw-on mounting

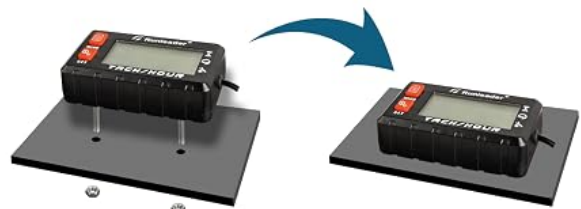


Image 5.1: Illustration of the replaceable CR2045 battery and the 'BAL-Lo' low battery indicator on the display.

5.2 Waterproof Rating

The device has an IP67 waterproof rating, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes. This ensures durability in various environmental conditions.

6. TROUBLESHOOTING

If you encounter issues with your Runleader HM058A-RD, consider the following:

- **No Display/Power:** Check the battery level. If 'BAL-Lo' is displayed or the screen is blank, replace the CR2045 battery.
- **Inaccurate RPM Reading:** Ensure the signal wire is wrapped securely around the spark plug wire at least 5 times. Verify that the correct engine firing pattern is programmed in the settings.
- **Buttons Unresponsive:** Try performing a user shutdown (MENU + SET simultaneously) and restarting the device.
- **Data Loss:** The device is designed to retain data after shutdown. If data is lost, contact customer support.

For persistent issues not resolved by these steps, please refer to the Warranty and Support section.

7. PRODUCT SPECIFICATIONS

Specification	Detail
Brand	Runleader
Model Number	RL-HM058A
Dimensions (L x W x H)	2.76 x 1.77 x 1.18 inches
Item Weight	1.41 ounces (40 Grams)
Material	Acrylonitrile Butadiene Styrene (ABS)
Battery Type	1 Lithium Metal battery (CR2045, included)
Waterproof Rating	IP67
Certifications	CE, ROHS

8. WARRANTY AND SUPPORT

The Runleader HM058A-RD Hour Meter Tachometer comes with a 2-year warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as intended under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact Runleader customer service through their official channels or the retailer from whom you purchased the device.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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